



A.D. 1853 N° 2686.

S P E C I F I C A T I O N

OF

JAMES RICE

AND

WILLIAM MATTHEWS.

INSTRUMENT FOR TAKING AND APPLYING
VACCINE MATTER.

L O N D O N :

PRINTED BY GEORGE F. EYRE AND WILLIAM SPOTTISWOODE,

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1854



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**Instrument for Taking and Applying Vaccine
Matter.**

(This Invention did not proceed to the Great Seal.)

PROVISIONAL SPECIFICATION left by James Rice and William Matthews at the Office of the Commissioners of Patents, with their Petition, on the 18th November 1853.

We, JAMES RICE, of Foley Place, in the County of Middlesex,
5 Surgeon, and WILLIAM MATTHEWS, of Portugal Street, in the same
County, Surgical Instrument Maker, do hereby declare the nature of
the Invention for "**IMPROVEMENTS IN INSTRUMENTS FOR TAKING AND
APPLYING VACCINE MATTER**" to be as follows:—

This Invention consists of combining parts into an instrument to
10 facilitate the taking and applying vaccine matter. For this purpose
a cylinder or barrel is used, having within it a piston moveable by a
piston rod in the manner of a syringe. To the piston is applied a
grooved point which is capable of being passed out from and drawn
back through the end of the cylinder or barrel. The outer end of the
15 barrel is made somewhat concave, and there is a small hole in the
centre for the passage of the puncturing point. On the interior of the

Rice & Matthews' Impts. in Instruments for Taking, &c. Vaccine Matter.

end is a small chamber through which the pivot passes. The piston rod is moved outwards by pressure, and is by preference brought back by a spring. The quantity of motion given to the piston may be adjusted by a screw nut, or otherwise. In using the instrument to take vaccine matter, the outer end is applied against the place, and the 5 puncturing point pressed outwards; the piston and point are then allowed to move back, and the vacuity in the small chamber caused by the moving back of the piston will be filled by the vaccine matter. When such matter is to be applied the end of the instrument is to be placed on the part of the skin, and the point in passing outwards will 10 carry with it the vaccine matter and apply it by puncturing the skin.

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1854.